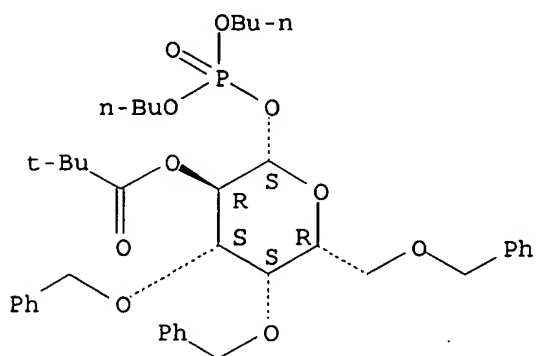


L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 226919-64-8 REGISTRY
CN β -D-Galactopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C40 H55 O10 P
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Jiang
12/09/05

Absolute stereochemistry. Rotation (+).

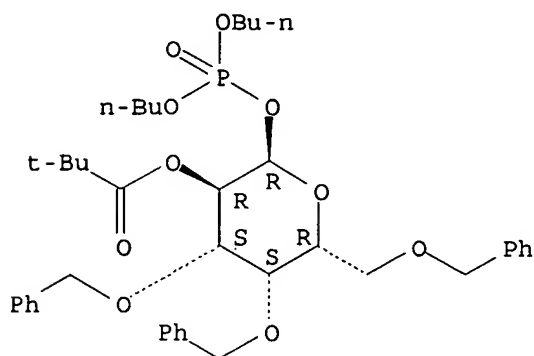


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 226919-81-9 REGISTRY
 CN α -D-Galactopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C40 H55 O10 P
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation)
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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31 145852-76-2/BI
6 201210-64-2/BI
5 219122-26-6/BI
2 219122-30-2/BI
3 226919-62-6/BI
5 226919-63-7/BI
7 226919-64-8/BI
3 226919-65-9/BI
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3 226919-68-2/BI
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26 40246-30-8/BI
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1464 582-52-5/BI
5448 75-08-1/BI
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=>.d ibib 1-7

L21 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:69442 CAPLUS
DOCUMENT NUMBER: 140:271086
TITLE: Automated synthesis of oligosaccharides
AUTHOR(S): Palmacci, Emma R.; Plante, Obadiah J.; Hewitt, Michael C.; Seeberger, Peter H.
CORPORATE SOURCE: Department of Chemistry, Massachusetts Institute of Technology (MIT), Cambridge, MA, 02139, USA
SOURCE: Helvetica Chimica Acta (2003), 86(12), 3975-3990
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:157792 CAPLUS
DOCUMENT NUMBER: 136:184053
TITLE: Apparatus and methods for the automated synthesis of oligosaccharides
INVENTOR(S): Seeberger, Peter H.; Plante, Obadiah J.
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
SOURCE: PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016384	A2	20020228	WO 2001-US25859	20010817
WO 2002016384	A3	20020718		
W: AU, CA, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
CA 2420183	AA	20020228	CA 2001-2420183	20010817
AU 2001086539	A5	20020304	AU 2001-86539	20010817
US 2002085964	A1	20020704	US 2001-932277	20010817
EP 1315559	A2	20030604	EP 2001-965993	20010817
EP 1315559	B1	20050413		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2004507467	T2	20040311	JP 2002-521481	20010817
AT 293012	E	20050415	AT 2001-965993	20010817
PRIORITY APPLN. INFO.:			US 2000-226169P	P 20000818
			US 2000-254233P	P 20001208
			WO 2001-US25859	W 20010817

OTHER SOURCE(S): CASREACT 136:184053

L21 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:662532 CAPLUS
DOCUMENT NUMBER: 135:371934
TITLE: Oligosaccharide Synthesis with Glycosyl Phosphate and Dithiophosphate Triesters as Glycosylating Agents
AUTHOR(S): Plante, Obadiah J.; Palmacci, Emma R.; Andrade, Rodrigo B.; Seeberger, Peter H.
CORPORATE SOURCE: Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA
SOURCE: Journal of the American Chemical Society (2001), 123(39), 9545-9554
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal

LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:371934
REFERENCE COUNT: 85 THERE ARE 85 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:360387 CAPLUS
DOCUMENT NUMBER: 135:122672
TITLE: Solution and Solid-Support Synthesis of a Potential
Leishmaniasis Carbohydrate Vaccine
AUTHOR(S): Hewitt, Michael C.; Seeberger, Peter H.
CORPORATE SOURCE: Department of Chemistry, Massachusetts Institute of
Technology, Cambridge, MA, 02139, USA
SOURCE: Journal of Organic Chemistry (2001), 66(12), 4233-4243
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:122672
REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:143892 CAPLUS
DOCUMENT NUMBER: 134:237716
TITLE: Automated solid-phase synthesis of oligosaccharides
AUTHOR(S): Plante, Obadiah J.; Palmacci, Emma R.; Seeberger,
Peter H.
CORPORATE SOURCE: Department of Chemistry, Massachusetts Institute of
Technology, Cambridge, MA, 02139, USA
SOURCE: Science (Washington, DC, United States) (2001),
291(5508), 1523-1527
CODEN: SCIEAS; ISSN: 0036-8075
PUBLISHER: American Association for the Advancement of Science
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:237716
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:241242 CAPLUS
DOCUMENT NUMBER: 132:251369
TITLE: Combinatorial synthesis of oligosaccharide phosphates
via glycosidation reaction
INVENTOR(S): Seeberger, Peter H.; Plante, Obadiah J.
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
SOURCE: PCT Int. Appl., 92 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000020428	A2	20000413	WO 1999-US23292	19991006
WO 2000020428	A3	20000914		
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2346237	AA	20000413	CA 1999-2346237	19991006
EP 1119577	A2	20010801	EP 1999-951811	19991006
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6323339	B1	20011127	US 1999-413381	19991006
JP 2002526549	T2	20020820	JP 2000-574539	19991006
US 2003004322	A1	20030102	US 2001-33175	20011101

PRIORITY APPLN. INFO.: US 1998-103291P P 19981006
 US 1999-413381 A1 19991006
 WO 1999-US23292 W 19991006

OTHER SOURCE(S): CASREACT 132:251369; MARPAT 132:251369

L21: ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:334357 CAPLUS

DOCUMENT NUMBER: 131:73867

TITLE: Synthesis and Use of Glycosyl Phosphates as Glycosyl
 Donors

AUTHOR(S): Plante, Obadiah J.; Andrade, Rodrigo B.; Seeberger,
 Peter H.

CORPORATE SOURCE: Department of Chemistry, Massachusetts Institute of
 Technology, Cambridge, MA, 02139, USA

SOURCE: Organic Letters (1999), 1(2), 211-214

 CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT